

ABSTRACT OF THE DISCLOSURE

Disclosed are a system, method and computer program for component-based processing, comprising a component
5 specification element, a control flow specification element, a data flow specification element, a resource specification element, a quality of service specification derivation element having for output an application model in combination with a quality of service specification derived by
10 implication from relations between components, control flows, data flows and resources, and a runtime engine for deploying said quality of service specification as a runtime contract in a runtime processing environment. Examples of such qualities of service are requirements of a process to have
15 provided for it support for transactionality, recoverability, asynchronous messaging and the like.